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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/356,845	07/19/1999	JOHN DAVID KAEWELL JR.	I-1-50.5US	8408
75	90 11/28/2001			
VOLPE AND KOENIG PC			EXAMINER	
	ENNEDY BOULEVAR	D	BOCURE, TESFALDET	
PHILADELPH	IA, PA 19103		ART UNIT	PAPER NUMBER
			2631	

DATE MAILED: 11/28/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

Office Action Summary

Application No. 09/356,845 Applicant(s)

John David Kaewell et al.

		l estaidet Bocure	2631	
- The MAILING DATE of thi	s communication appears	on the cover sheet with the corre	spondence address –	
Period for Reply				
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO		T TO EXPIRE <u>three</u> MON	ITH(S) FROM	
Extensions of time may be available und after SIX (6) MONTHS from the mailing. If the period for reply specified above is leading to the period of the	ng date of this communication.			
be considered timely. If NO period for reply is specified above, communication. Failure to reply within the set or extended Any reply received by the Office later that	d period for reply will, by statute	e, cause the application to become ABAN	DONED (35 U.S.C. § 133).	
earned patent term adjustment. See 3	37 CFR 1.704(b).	g	.,,,	
Status 1) ☑ Beananaiya ta communication	on(a) filed on 0/24/04			
1) 🗓 Responsive to communication	-			-
	2b) 🗓 This acti			
3) ☐ Since this application is in c closed in accordance with t		ccept for formal matters, prosecuti arte Quaฟู <mark>ช</mark> 35 C.D. 11; 453 O.G. 2		
Disposition of Claims				
4) X Claim(s) <u>11, 13-23, 25-27,</u>	and 29-31		is/are pending in the applic	a
4a) Of the above, claim(s)			is/are withdrawn from consid	era
5)			is/are allowed.	
6) 🗓 Claim(s) <u>11, 13-23, 25-27, a</u>	and 29-31		is/are rejected.	
7)			is/are objected to.	
8) 🗌 Claims		are subject to	restriction and/or election requ	irem
Application Papers				
9) The specification is objected	to by the Examiner.	,		
10) The drawing(s) filed on	is/a	re objected to by the Examiner.		
11) The proposed drawing corre	ction filed on	is: a∏ approved	b) ☐ disapproved.	
12) The oath or declaration is ob	jected to by the Examine	r.		
Priority under 35 U.S.C. § 119 13) ☐ Acknowledgement is made o	of a claim for foreign price	rity under 35 LLS C & 110(a) (d)		
a) ☐ All b) ☐ Some* c) ☐N	•	inty diluct 05 0.0.0. § 1 19(a)-(d).		
1. Certified copies of the		peen received		
	-	peen received in Application No.		
3. Copies of the certified application from	copies of the priority docu the International Bureau	uments have been received in this (PCT Rule 17.2(a)).		
*See the attached detailed Office 14) ☐ Acknowledgement is made of the second of the		•		
14) Acknowledgement is made to	n a ciaim for domestic pr	ionty under 33 0.3.0. 9 119(e).		
Attachment(s)				
15) Notice of References Cited (PTO-892)		18) Interview Summary (PTO-413) Paper N	o(s)	
16) Notice of Draftsperson's Patent Drawing Re		19) Notice of Informal Patent Application (P	TO-152)	
17) Information Disclosure Statement(s) (PTO-1	449) Paper No(s)	20) Other:		

Serial Number: 09/356,845

Art Unit: 2631

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 1. basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 11, 13-23, 25-27 and 29-30 are rejected under 35 U.S.C. 102(b) as being 2. anticipated by Schlosser et al. (US patent number 3,879,581, newly cited).

Schlosser teaches a communication system having a repeater station (100) (claimed primary) for communicating with a plurality of subscriber stations (not shown, see subscriber line in figure 1) and data terminals (110), wherein the repeater terminal comprising means and steps for: receiving an information signal from one of the subscriber stations using an up-link channel and slot through a data terminal (110); detecting the received up-link signal from the terminal and the sync signal and assigning a sync. signal in a corresponding time slot for transmitting to the receiving end on the assigned time slot and frequency (2a-2f and claims 1-6) as in claims 11,13,15,16,19,22,26 and 30. The repeater unit modifies the received up-link signals to be transmitted and assigns the down-link time slot without the knowledge of the data terminals and subscriber units, and therefore it is transparent to both the subscriber and the data terminals.

Serial Number: 09/356,845 Page 3

Art Unit: 2631

Further to claims 14,17 and 20, the data terminals and the subscriber station (not shown) are outside the operating range.

The time slots in figures 2a-2f having a corresponding up-link and down-link frequencies (800 channels) as in claims 23,27 and 30.

The repeater unit (100) modifies the received signal to be transmitted to the receiving end, therefore, reads on the claimed equalizing the received signal before retransmitting as in claims 25,29 and 31.

The wideband downlink (121) includes a synchronization and control filed, which is utilized by the spacecraft to interrogate and call the date terminals in order to set up a circuit connection, to provide time reference for uplink synchronization of the terminals (see col. 4, lines 41-59), reads on the newly claimed secondary station aligning its frame timing according to the according to the received signal in claims 11,15 and 19.

The repeater unit is a radio transceiver reads on the claimed transmitter and receiver embedded on radio as in claims 18 and 21.

Response to Amendment

In response to applicant's argument in pages 6-8 with respect to claims 11,13-23, 25-27 and 29-31 that:

In the office action, the spacecraft is equated to the primary station of claim 1 (meant claim 11) or the telecommunication station of claims 15 and 19 and their dependent claims. However, the spacecraft in Schlosser et al. is closer to

Serial Number: 09/356,845

Art Unit: 2631

the base station recited in those claims and is not similar to the primary station. As is well known in the art, a base station wirelessly communicate with communication stations in its operating area. For the present invention, the primary/telecommunication station relays transmission from the base station to a secondary station and conversely relays the signals from the secondary station back to the base station.

As correctly noted by the Applicant in his argument, the spacecraft (100) is acting as a relay station (repeater station) for relaying information between data terminals and at the same time as a master station (claimed primary station) for assigning timing and frequency for the data terminals.

Further response to the argument that:

Schlosser et al. does not disclose such an arrangement. In Schlosser et al., the spacecraft assigns timeslots and provides timing information to each data terminal. The spacecraft in Schlosser is definitely not transparent to the users, since the data terminals are both directly synchronized to and communicating with the space station and not to each other. Theses distinctions are clearly recited in the claims.

As indicated in the office action, with respect to transparency, i.e., the spacecraft modifies the received up-link signals to be transmitted and assigns the down-link time slot without the knowledge of the data terminals and subscriber units, and therefore it is transparent to both the subscriber and the data terminals.

Further response to the argument that:

To illustrate using claim 1 (meant claim 11), claim 11 recites "a base station receiving from the primary station the TX speech information originally from the secondary space station in said <u>respective transmission timeslot</u>.---.This differs from Schlosser et al., where Schlosser assigns each data terminal unique timeslots. Accordingly, the timeslot used for transmission from one terminal is

Serial Number: 09/356,845 Page 5

Art Unit: 2631

not used by the space station of Schlosser et al. to transmit that information to another data terminal.

As claimed, the "respective transmission timeslot" does not mean that the same time slot used by the base station is going to be used by the secondary station. Rather, transmitting and receiving in the respective assigned timeslot.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T.Bocure whose telephone number is (703) 305-4735. The examiner can normally be reached on Monday through Thursday the first week of a bi-week and Monday through Friday the second week of a bi-week from 7:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4743 or (703) 305-3988.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-4700.

Tesfaldet Bocure Primary Examine Serial Number: 09/356,845

Art Unit: 2631

Art Unit 2631

T.Bocure

November 15, 2001